

3M Center
St. Paul, Minnesota 55144-1000
612/733 1110

JAN 30 1990

Duns No.: 00-617-3082

MATERIAL SAFETY
DATA SHEET**3M**

DIVISION: AEROSPACE MATERIALS DEPARTMENT

TRADE NAME:

3M EC-1300

3M I.D. NUMBER: 62-1300-2608-1 62-1300-5551-0 62-1300-6551-9

ISSUED: JANUARY 4, 1990

SUPERSEDES: DECEMBER 30, 1989

DOCUMENT: 11-2317-3

| 1. INGREDIENT | C.A.S. NO. | PERCENT | ----- EXPOSURE | | LIMITS ----- | |
|----------------------|------------|-------------|----------------|------|--------------|-------|
| | | | VALUE | UNIT | TYPE | AUTH |
| petroleum distillate | 64742-88-7 | 30.0 - 40.0 | 100 | ppm | TWA | CMRG |
| methyl ethyl ketone | 78-93-3 | 20.0 - 30.0 | 200 | ppm | TWA | ACGIH |
| polychloroprene | 9010-98-4 | 10.0 - 20.0 | NONE | NONE | NONE | NONE |
| magnesium resinate | 68611-24-5 | 20.0 - 30.0 | NONE | NONE | NONE | NONE |
| toluene | 108-88-3 | 1.0 - 10.0 | 100 | ppm | TWA | ACGIH |

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

methyl ethyl ketone
toluene

2. PHYSICAL DATA

BOILING POINT:..... 140.00 F
 VAPOR PRESSURE:..... 120.0000 mmHg
 @ 68F
 VAPOR DENSITY: > 2.50 Air = 1
 EVAPORATION RATE:..... > 2.00 Ether = 1
 SOLUBILITY IN WATER: Low
 SP. GRAVITY:..... 0.880 Water = 1
 PERCENT VOLATILE: 62.00 %
 VOLATILE ORGANICS: 550.00 gm/l
 pH: N/D
 VISCOSITY: 1300.0-2600.0 CPS
 APPEARANCE AND ODOR: yellow, low viscosity liquid, solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -14.00 F T.C.C.
 (petroleum distillate)
 FLAMMABLE LIMITS - LEL: 1.00 %
 FLAMMABLE LIMITS - UEL: 11.50 %
 AUTOIGNITION TEMPERATURE: ... N/D
 EXTINGUISHING MEDIA:
 CO2, foam, dry chemical
 SPECIAL FIRE FIGHTING PROCEDURES:
 Fire fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.
 UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Extremely Flammable. Overheated, closed containers adjacent to fire could explode due to internal pressure buildup.

Abbreviations: N/D - Not Determined N/A - Not Applicable

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

NFPA-HAZARD-CODES: HEALTH 2 FIRE 3 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Oxidizers
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
CO, CO2, HCl with possible trace amounts of phosgene and chlorine
when subjected to excessive heat or flame.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Extinguish all ignition sources. Ventilate the area. Observe precautions from other sections. Contain the spill. Cover with absorbent materials as needed. Collect the spilled material using non-sparking tools. Place in a U.S. Department of Transportation - approved metal container, and seal.

RECOMMENDED DISPOSAL:

Incinerate absorbed and bulk product after mixing with flammable material in a licensed hazardous waste facility. Disposal should be in accordance with applicable regulations. U.S. Hazardous Waste No.: D001 (Ignitable).

ENVIRONMENTAL DATA:

Volatile Organic Compound (VOC):
Maximum VOC = 550 grams/liter.
Maximum VOC minus Water minus Exempt Solvents = 550 grams/liter.
VOC's were calculated according to Rule 443.1 of the South Coast Air Quality Management District (SCAQMD).

SARA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Flush eyes with large amounts of water for at least 10 minutes. Call a physician.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

Move affected person to fresh air at once. If breathing difficulties persist, call a physician.

IF SWALLOWED:

Do not induce vomiting. Call a physician or poison control center

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6. SUGGESTED FIRST AID

(continued)

immediately.

OTHER FIRST AID:
NONE

7. PRECAUTIONARY INFORMATION

FOR INDUSTRIAL OR PROFESSIONAL USE ONLY. Keep away from heat, sparks, flame and other sources of ignition. The vapors released by this product can be easily ignited. Avoid prolonged breathing of vapors or spray. Use only in areas with sufficient ventilation to maintain vapor or spray concentrations below recommended exposure limits. Keep container closed when not in use. Avoid contact with eyes and skin. Utilize personal protective equipment when handling this product, i.e. impervious gloves and chemical goggles or safety glasses depending on exposure conditions. Keep out of the reach of children.

ADDITIONAL EXPOSURE LIMITS

| INGREDIENTS | ---- EXPOSURE LIMITS ---- | |
|---------------------|---------------------------|-------|
| | VALUE | UNIT |
| methyl ethyl ketone | 590 | mg/m3 |
| methyl ethyl ketone | 300 | ppm |
| methyl ethyl ketone | 885 | mg/m3 |
| methyl ethyl ketone | 200 | ppm |
| methyl ethyl ketone | 590 | mg/m3 |
| methyl ethyl ketone | 300 | ppm |
| methyl ethyl ketone | 885 | mg/m3 |
| toluene | 375 | mg/m3 |
| toluene | 150 | ppm |
| toluene | 560 | mg/m3 |
| toluene | 100 | ppm |
| toluene | 375 | mg/m3 |
| toluene | 150 | ppm |
| toluene | 560 | mg/m3 |

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Liquid and vapor may cause eye irritation. Symptoms may include tearing, redness and blurred vision.

SKIN CONTACT: Acute exposure is mildly irritating. Prolonged or repeated contact will produce defatting and resultant dermatitis.

INHALATION: Inhalation of vapors at concentrations exceeding the recommended exposure limits may cause respiratory system irritation and temporary nervous system impairment. Symptoms of overexposure include drowsiness, light-headedness, dizziness, nausea and headache.

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3M General Offices

3M Center
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00-84
1201

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8. HEALTH HAZARD DATA**(continued)**

Prolonged or repeated overexposure may cause any of the following: depression, facial numbness, visual disorders, giddiness and anemia. Repeated or extreme overexposure to vapors may cause nervous system damage.

INGESTION: Solvent aspiration into the lungs as a result of vomiting may cause lung damage, which can be harmful or fatal. May cause digestive system irritation. Symptoms may include diarrhea and nervous system impairment.

SECTION CHANGE DATES

| | | |
|---------------|-----------------------|-------------------------|
| HEADING | SECTION CHANGED SINCE | DECEMBER 30, 1989 ISSUE |
| ENVIRON. DATA | SECTION CHANGED SINCE | DECEMBER 30, 1989 ISSUE |

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.

BOE-C6-0229919

3M General Offices

3M Center
St. Paul, Minnesota 55144-1000
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Industrial Hygiene

JAN 29 1990

00-84
1197

Duns No.: 00-617-3082

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DATA SHEET

3M

JANUARY 20, 1990

MC DONNELL DOUGLAS A/C C
IND HYGIENE/SAFETY DEPT
3855 LAKEWOOD BLVD
LONG BEACH CA 90846-0001

DEAR INGRID PARKER MC/9-19

Enclosed are Material Safety Data Sheets (MSDSs) for 3M products as you recently requested.

Our objective in sending this information is to help you protect the health and safety of your personnel and to comply with the OSHA Hazard Communication Standard and Title III of the Superfund Amendments and Reauthorization Act of 1986. The OSHA standard requires that all personnel who may be exposed to hazardous materials must be provided by their employer with accurate information on the potential hazards of the materials and trained in proper work practices to minimize any risk.

If you are a distributor and resell this product, OSHA and EPA require that you transmit this MSDS information to your customers at the time of first shipment or whenever you receive revised MSDSs from 3M.

Although this MSDS is being mailed at your request, you should be aware that 3M normally mails required MSDSs automatically to customers who order our products. 3M is committed to meeting our customer requirements, and asks that you contact your 3M customer service or sales representative if you have any questions or problems in this regard.

Sincerely,

F. D. Griffith, Ph.D.
Manager, Toxicology Services

Enclosure(s)